



NUCLEAR DIVISION NEWS

A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

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Personal Investment Account enhances long-term savings

Many companies and the Federal Government, including ERDA, require employees to contribute a certain amount of their pay toward retirement benefits. When this is done, the benefits normally are larger than if only the employer's money is used for this purpose. Nuclear Division employees sometimes hear that ERDA's pension benefit is better than our own. The principal reason for this is that, over the years, ERDA employees have been required to have a certain percentage of their total salary (7 percent at present) directed to their pension fund. Also, ERDA employees do not participate in Social Security and have only pension income, while UCC employees have pension and Social Security benefits at retirement.

UCC's Savings Plan was improved in 1973 with the addition of the Personal Investment Account. It now gives employees a similar opportunity to place part of their earnings into long-term savings. At retirement this money can be used to provide monthly benefits in addition to those from the Pension Plan and Social Security.

Retirement income

Ronald D. Smith and Alan K. VanHull, who are in the Process Analysis Department in the Operations Analysis and Planning Division and located at the Y-12 site, have made some comparisons showing how participation in the Personal Investment Account can affect an employee's retirement income. In their comparison, Smith and VanHull have taken a typical case of an employee who retires at age 65 with 25 years of service. During his final 15 years he has divided his Savings Plan participation equally between the General Savings Fund and the Personal Investment Account. When he retires he converts the monies in the Personal Investment Account to a life annuity.

Smith and VanHull point out that participation in the Personal Invest-

ment Account with the objective of supplementing retirement income has an additional advantage. It not only builds up a supplement to an individual's pension but it defers, until after retirement, income tax on the Company's contribution to the Personal Investment Account and the PIA earnings. Additionally, by converting the monies to an annuity, the tax is payable over an extended period.

Examples cited

The examples in the tables which follow are based on these assumptions:

1. The employee retires at age 65 with 25 years' Company service. His wife is also 65.
2. For the 15 years prior to retirement, he has put half of his Savings Plan money (3.75%) in the Personal Investment Account. He has directed that his own and the Company's matching money be invested in Series E Savings Bonds. His earnings during this period have increased by four percent per year.
3. Pre-retirement taxes are based on a couple who files a joint return, has two exemptions, and takes the standard deduction.
4. The employee purchases a Life Annuity at the time of retirement with the funds in the Personal Investment Account.
5. Post-retirement taxes incorporate the assumptions that the couple files a joint return, has the normal four exemptions

(Continued on page 2)

The next issue will be dated October 30. The deadline is October 22.

Standard time will return October 26

At 2 a.m. Sunday, October 26, the clocks are rolled back an hour to end Daylight Saving Time.

Employees on the owl shift will clock in on Eastern Daylight Saving Time, and clock out on Eastern Standard Time. Dark mornings have brought about a warning from a concerned employee. Many motorists are driving without their headlights on, which means you can not see, nor can you be seen. Even with DST gone, you still need your headlights on these winter mornings.

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UNITED WAY KICKOFF — Joy Huffstetler, ORNL, explains to Nuclear Division United Way workers how diligently budgets for agencies are scrutinized to see that every cent is spent prudently. From left are Harry J. Brown, general co-chairman; Ed Gambill, who heads the campaign in Y-12; Will Minter, also of Y-12; Byrd Duncan, Briceville Health Center, and Mrs. Duncan; Clarence Lay, who recently retired from ORGDP; and Roger F. Hibbs, ND President.

More than half of UW goal attained in first reports

The first status report for the United Way campaign is very encouraging, showing "continuing fair share" pledges among the three Oak Ridge plants.

More than 58 percent of the goal of \$485,000 has been reached! With slightly more than one-third of the Nuclear Division employees heard from, a total of \$284,188 has been pledged. A county breakdown shows that \$158,904 of this goes to Anderson; \$69,535 to Knox; \$11,451 to Loudon; \$6,881 to Morgan; and \$37,417 pledged to Roane.

ORGDP near goal

The Oak Ridge Gaseous Diffusion Plant stands closer to its goal than Y-12 or the Oak Ridge National Laboratory. ORGDP, with slightly more than 41 percent of returns in has reached more than 65 percent of its goal ... \$98,639 of a goal of \$150,000. Y-12, with almost 39 percent returns in, shows almost 62 percent of goal attained, \$95,683 of a \$155,000 goal.

ORNL, with more than 27 percent of returns in, has attained almost half its goal, \$89,866 of a goal of \$180,000.

Paducah drive nears end

With almost all returns in, the Paducah Gaseous Diffusion Plant hits a new high in total giving ... \$57,280, almost \$12,000 more than was given in last year's drive. Bill Penry, J. B. Thomason and J. O. Dobson, co-chairmen for the drive, expressed their gratitude for the more than 25

percent increase in giving in the Paducah Plant. "It more than takes our agencies through the inflation," they stated.

Concentrated efforts to end the drive quickly in Oak Ridge followed the kick-off campaign held the first week in October in the Civic Center where plant leaders, agency representatives and visitors asked the UW workers in the Division for their help.

Toll enrichment up \$60 million

More than \$51 million in toll enrichment sales were recorded at the Oak Ridge Gaseous Diffusion Plant during the third quarter of 1975, bringing sales for the year to date to over \$143 million.

Total sales for the first nine months of 1975 are approximately \$60 million greater than for the same period in 1974.

Under the Toll Enrichment Program, privately-licensed owners bring their uranium to a gaseous diffusion plant for enrichment on a toll basis. Customers are charged for the services required to separate from natural uranium the desired percentage of uranium-235 isotope, usually between two and three percent.

The Paducah Gaseous Diffusion Plant, as well as one in Portsmouth, Ohio, also participates in the uranium enrichment program.

Manager of environmental statements named at ORNL



H. E. Zittel

H. E. Zittel has been appointed manager of the Environmental Statements Project, Energy Division at Oak Ridge National Laboratory. In his new position, Zittel will report to Thomas Row, head of Environmental Impacts, and will have responsibility for the environmental statements work which the Section does for the Nuclear Regulatory Commission.

Zittel received his undergraduate and Ph.D. degrees in chemistry from Vanderbilt University, and served in the U.S. Army. He joined the Analytical Chemistry Division as a research chemist in 1958. Zittel became involved in the environmental impact statement project about three years ago, and transferred to the Energy Division when it was formed last year.

Zittel has authored or coauthored more than 40 articles including contributions to several books. He is a member of Sigma Xi, the American Association for the Advancement of Science and the American Chemical Society. A consultant to the Nuclear Regulatory Commission's Advisory Committee on Reactor Safeguards, Zittel is currently involved in the Seabrook reactor Atomic Safety and Licensing Board hearings.

Zittel and his wife, Florence, live in Roane County. They have a son and a daughter.

Personal Investment (Continued from page 1)

given two persons over 65, and takes the standard deduction.

6. The computations are based on Internal Revenue Service, Social Security, and Company Savings

NUCLEAR DIVISION NEWS



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More academic honors to Carbide children

The children of six more Nuclear Division employees have earned academic honors recently.

Among Knoxville area National Merit Semifinalists are, by school:

Bearden High School - James A. Godsey, son of Arnold R. Godsey Jr. (Engineering at ORNL);

Karns High School - Anthony P. Gouge, son of Perry S. Gouge (ORNL Analytical Chemistry); and Richard K. Trubey, son of David K. Trubey (ORNL Neutron Physics Division);

Powell High School - R. Craig McClung, son of Robert W. McClung (ORNL Metals and Ceramics); and

West High School - Randall V. Myers, son of Robert M. Myers Jr. (Central Payroll).

This brings to 19 the total of area National Merit Semifinalists whose parents are employed in the Nuclear Division.

Kimberlia L. Thrift, the daughter of Charlestine Thrift, ORNL Biology, has been named a semifinalist in the 12th annual National Achievement Scholarship Program for Outstanding Negro Students. A former Oak Ridge High School student, Kimberlia is attending Transylvania University in Lexington, Ky., under the early admissions program.

The 500 National Achievement scholarships will be awarded next spring.

TABLE I

COMPARISON OF PRE- AND POST-RETIREMENT ANNUAL INCOME

Average Annual Salary Last 5 Years	Pre-Retirement			15 Years Accumulation of U.S. Savings Bonds in PIA			Post-Retirement							Post-Retirement Net Income as a Percent of Final Year Pre-Retirement Net Income
	Salary	Final Year Social Security (FICA) & Income Taxes	Net Income	Employee's Contribution	Company Contribution	Value at Age 65	Company Pension	Life Annuity (PIA Funds)	Total Taxable Income	Income Tax	Subtotal Net Income	Social Security Income	Net Income	
\$ 8,000	\$ 8,640	\$1,421	\$ 7,218	\$ 3,746	\$1,124	\$ 7,383	\$2,400	\$ 880	\$ 3,030	\$ 0	\$ 3,280	\$5,068	\$ 8,347	116
10,000	10,799	1,951	8,849	4,683	1,405	9,229	3,000	1,099	3,787	0	4,099	5,442	9,542	108
12,000	12,959	2,472	10,488	5,619	1,686	11,075	3,600	1,319	4,545	32	4,887	5,578	10,465	100
14,000	15,119	3,001	12,118	6,556	1,967	12,921	4,200	1,539	5,302	144	5,595	5,591	11,186	92
16,000	17,279	3,530	13,749	7,492	2,248	14,766	4,800	1,759	6,059	256	6,303	5,591	11,894	87
18,000	19,439	4,070	15,369	8,429	2,529	16,612	5,400	1,979	6,817	374	7,005	5,591	12,596	82
20,000	21,599	4,673	16,926	9,366	2,810	18,458	6,000	2,199	7,574	497	7,702	5,591	13,293	77
25,000	26,998	6,324	20,674	11,707	3,512	23,072	7,500	2,748	9,468	820	9,428	5,591	15,019	73
30,000	32,398	8,275	24,123	14,048	4,215	27,687	9,000	3,298	11,361	1,125	11,173	5,591	16,764	69

All dollar values are rounded to the nearest dollar. Thus, some additions and subtractions may appear to be in error by one dollar.

NOTE: Employees might give consideration to investing their entire savings plan funds (7.5 percent of earnings) in United States Savings Bonds in the Personal Investment Account for the 15 years. The assumptions for this table are identical to those of the previous table except for the amount invested in the Personal Investment Account.

TABLE II

COMPARISON OF PRE- AND POST-RETIREMENT ANNUAL INCOME

Average Annual Salary Last 5 Years	Pre-Retirement			15 Years Accumulation of U.S. Savings Bonds in PIA			Post-Retirement							Post-Retirement Net Income as a Percent of Final Year Pre-Retirement Net Income
	Salary	Final Year Social Security (FICA) & Income Taxes	Net Income	Employee's Contribution	Company Contribution	Value at Age 65	Company Pension	Life Annuity (PIA Funds)	Total Taxable Income	Income Tax	Subtotal Net Income	Social Security Income	Net Income	
\$ 8,000	\$ 8,640	\$1,421	\$ 7,218	\$ 7,493	\$2,248	\$14,766	\$2,400	\$1,759	\$ 3,659	\$ 0	\$ 4,159	\$5,068	\$ 9,227	128
10,000	10,799	1,951	8,849	9,366	2,810	18,458	3,000	2,199	4,574	67	5,132	5,442	10,574	119
12,000	12,959	2,472	10,488	11,239	3,372	22,149	3,600	2,639	5,489	166	6,073	5,578	11,651	111
14,000	15,119	3,001	12,118	13,112	3,934	25,841	4,200	3,078	6,404	310	6,968	5,591	12,559	104
16,000	17,279	3,530	13,749	14,985	4,495	29,533	4,800	3,518	7,319	454	7,864	5,591	13,455	98
18,000	19,439	4,070	15,369	16,858	5,057	33,224	5,400	3,958	8,234	607	8,751	5,591	14,342	93
20,000	21,599	4,673	16,926	18,731	5,619	36,916	6,000	4,398	9,149	764	9,634	5,591	15,224	90
25,000	26,998	6,324	20,674	23,414	7,024	46,145	7,500	5,497	11,436	1,137	11,860	5,591	17,451	84
30,000	32,398	8,275	24,123	28,097	8,429	55,374	9,000	6,596	13,723	1,539	14,057	5,591	19,648	81

All dollar values are rounded to the nearest dollar. Thus, some additions and subtractions may appear to be in error by one dollar.

IC bulletins list energy conservation, environmental items

Activities ranging from a study of seasonal fuel utilization efficiency of residential heating systems, to development of an apparatus for more efficient exhaust systems, to development of an apparatus for more efficient exhaust stack sampling are described in the latest series of Industrial Cooperation Bulletins being mailed to industries throughout the nation.

The bulletins are issued as part of the Industrial Cooperation Program of the Nuclear Division.

Each bulletin describes a specific item, reports on the stage of development, the potential industrial application and patent status. In addition, the bulletins give the names of those persons from whom additional information can be obtained.

The bulletin dealing with fuel utilization efficiency of residential heating systems covers three systems — electrical resistance, fired furnaces with forced circulating air, and electric-driven air-to-air heat pumps. Each system is analyzed and compared for present and potential fuel-utilization efficiency. Sources of inefficiency are discussed and quantified where adequate information is available.

Among the other items included in the latest Industrial Cooperation Bulletins are:

- *A pressure-instrument calibration system.
- *A feasibility study for producing methanol from coal for fuel use.
- *Use of a turnable laser in absorption spectroscopy.
- *Analysis of water, alcohols and amines in organic materials.
- *A guide to the design, fabrication, operation and transportation of shipping casks for nuclear applications.
- *A rapid and accurate method to determine lead in whole blood.
- *Ultrasonic inspection of welds.

*Disposal of containers of hazardous materials.

Industrial Cooperation Bulletins are issued on a quarterly basis. Businesses interested in obtaining copies of the bulletins should contact: A. M. Read, Industrial Cooperation Office, Nuclear Division, Union Carbide Corporation, P. O. Box Y, Oak Ridge, Tenn. 37830.

Gas coupons eliminated for remainder of 1975

The final quarter of 1975 will be a test time to see if the controls of gasoline for governmental vehicles are effective. No coupons will be required during the period. The conservation of gasoline is still an objective, however, and the 15 percent reduction that the Energy Research and Development Administration is still our prime objective.

Rationing tickets will be resumed if the reductions goals are not reached during the trial period or if decreased gasoline availability makes more stringent controls necessary.

Four new shift superintendents named in Y-12



Perry W. Bullard



Harry A. Keen



James A. McLain



Steve E. Pelizzari

Four new shift superintendents have been named in the Y-12 Plant, according to George W. Evans, superintendent.

Perry W. Bullard is shift superintendent for BShift. A native of Columbus, Ga., he has been with Union Carbide 24 years, working as a machinist, machining foreman and assistant general foreman in the Y-12 Plant.

He and his wife, the former Maxine Palmer, live at 105 East Geneva Lane, Oak Ridge.

Harry A. Keen will be in charge of D Shift. A native of Strunk, Ky., he has been in Y-12 almost 30 years, serving as a process general foreman and a process operator in chemical operations.

He is a veteran of the U.S. Army, and lives at 109 Bradley Avenue, Oak Ridge. His wife is the former Dorothy Blake and they have one son, Joe, who works at the Oak Ridge Gaseous Diffusion Plant.

James A. McLain is in charge of A Shift. He was born in Sylva, N.C., and lives at 7 Bonnyview Avenue, Kingston. He was in the U.S. Navy, and has been in Y-12 more than 29 years, working as a production engineer, assistant shift superintendent and as a steam plant supervisor. Most recently, he was a general foreman in the utilities department.

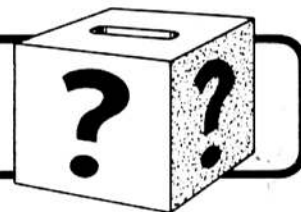
He and his wife, the former Gladys Propst, have two sons. McLain serves

on the Kingston Park and Recreation Commission.

Steve E. Pelizzari is a new shift superintendent for C Shift. A native of LaFollette, he served in the U.S. Army in the Pacific Theater during World War II. He was with the Fleet Oil Company, Wender's Department Store, and the Fuller Brush Company before joining Union Carbide in 1951. In Y-12 he worked as an operator in the chemical department, also as a foreman and was a general foreman in the assembly department before his most recent appointment.

Pelizzari and his wife, the former Mildred Robbins, lives at 403 Greenwood Drive, Clinton. They have two sons and a daughter.

QUESTION BOX



If you have questions on company policy, write the Editor, Nuclear Division News (or telephone your question in, either to the Editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

QUESTION: Can something be done about the road going into Portal Five at K-25 to the Toll Enrichment Facilities? At shift change it is bottled up with traffic heading north across the one-way bridge at Poplar Creek and those others who turn right on Blair going to Oak Ridge, or to the Turnpike. It seems if the lanes were striped or otherwise marked, left and right lanes could be established and you would not have to wait behind somebody going in another direction.

ANSWER: Representatives from the ORGDP Safety Department and Plant Traffic Committee have inspected the road you mention in your question. From the standpoint of safety, they do not believe the present traffic flow creates any particular safety hazard.

In order to prevent any waiting to make a turn east or north, it would be necessary to construct a third lane to the road. ORGDP Management does

not believe employees are, at this time, being inconvenienced to the point that the additional lane would be justified.

QUESTION: How does an employee get a chance at one of the nontechnical exempt positions in the Nuclear Division? I have a bachelor's degree in business, have been with Carbide for more than six years, and am still confined to clerical work. I have expressed my interest in other job opportunities to my supervisor, the division head, and the Personnel Office at my plant. I was told when I hired in that I would be considered when such jobs became available. To date, I have seen several non-degreed women and men promoted to exempt jobs, such as senior buyer, administrative assistant, supervisor and foreman. I know experience counts, but no one will give me a chance to get the experience even with my degree. (P.S. I am a black woman and my performance has always been rated as "very good.")

ANSWER: Why don't you talk to your Affirmative Action Coordinator to ask her or him to help you catalog your present experience and know-how and find out what, if anything, you are lacking to be able to fill some of the other jobs in which you are interested. In this review you will

want to make sure that all of your present skills are listed in your personnel folder. It may be that you will want to take advantage of the Educational Assistance Program as a way to improve your present skills and broaden your opportunities. The Affirmative Action Coordinators at each of our installations are: B. Wayne McLaughlin, Oak Ridge Gaseous Diffusion Plant, Ext. 3-3541; James M. Seivers, Oak Ridge Y-12 Plant, Ext. 3-5241; Joanne S. Gailar, Oak Ridge National Laboratory, Ext. 3-5081; and H. Frank Shanklin, Paducah Gaseous Diffusion Plant, Ext. 271.

QUESTION: A building was constructed in the 7000 area of the X-10 plant for use as a canteen. It served employees in this area as well as others. During the time of a cutback in appropriations this facility was closed and is now being used as a maintenance and storage shop. If the budget can support a temporary eating place (such as the one in the 4500 complex for summer employees), why can't this structure be reopened as a convenient place for the people in this location to buy their lunch?

Would you please publish this since there are many who would like to know the answer.

(Continued on page 8)

Foothills Craft show features UCC employees' handicraft

Nuclear Division employees will again be involved in the giant Foothills Craft Guild show and sale at the Oak Ridge Civic Center next month. It is set in the Shep Lauter Room, November 7, 8 and 9. Hours on the 7th and 8th are from 10 a.m. to 10 p.m. and on Sunday, November 9, from 1 to 6 p.m.

Some 90 of the 130 craftsmen and associate members will participate in the event, offering a wide selection of handcrafted items - jewelry, pottery, metal sculpture, woodwork of all types, textile and fiber creations, candles, note papers, toys, ornaments, arrangements of dried natural materials, and many other items. Two specialties of this year's show will be a piggy bank booth (items under \$2 for youngsters) and a bicentennial booth, featuring handicrafts and implements of early America.

Chartered as a non-profit, educational organization, the Guild uses proceeds from the sale to support

many community activities, including the Oak Ridge Arts Council, the high school craft show and scholarships for study in the arts and crafts field.

One may become a member of the Guild if he or she is a resident of Tennessee and meets the requirements of quality workmanship and originality. Information may be obtained concerning membership by writing the Foothills Craft Guild, Box 99, Oak Ridge, 37830.

The Guild, almost 10 years old, has grown from a few members to a wide variety of talented persons from throughout the state of Tennessee. More than 10,000 persons from all over the country attended last year's show. This year's show and sale is expected to attract even more.

Division participants

Forest L. Miller (Computer Sciences Division) and his wife, Mitzi, will co-chair this year's show. Mrs. Miller will show quilting and appliques at the show.

Ron Senn, Engineering Division at ORNL, is completing his second term as president of the Guild. He and his wife, Dot, will show some of their handcrafted work at the show, also.

From ORGDP, James Brewer, Engineering, will display bolo ties. Marti and Kurt Fleischer, wife and son of Burt Fleischer, will display macrame. Olive (Mrs. Jim) Morrison will again show natural material wreaths. Jo (Mrs. James) Brewer will also have a display at the show.

ORNL representatives

ORNL participants include Don Martin, fiber baskets; Richard Busey, furniture-making and wood turning; and Everett Bloom, cabinet-making, wood inlay and wood turning.

Nancy (Mrs. Dave) Braski will show needle weaving. Jude (Mrs. Don) Martin will display fiber baskets and soft fabric toys. Judy (Mrs. Jerry) Elwood, needle weaving; Jean (Mrs. Thomas) Cole, pottery; Fran (Mrs. Herman) Weeren, miniature pot-pourri pots and ceramics; Sharon (Mrs. David E.) Fields, stitchery and soft sculpture.

Y-12ers involved

From Y-12, William E. Dunlap will exhibit woodworking; and David Gentry will show wood inlay.

Barbara (Mrs. Bill) Hackett will again show enameling and nature notes; Helen (Mrs. John W.) Ellison, nature notepaper; Gwen (Mrs. Larry) McLaughlin, natural materials, jewelry and notes, and macrame; Barbara (Mrs. William C.) Pullen, leatherwork.

Special visitors will include Bill Henry, whittling; Ben Benjamin, jewelry; and Nancy Anne Goode, cross-stitching.

RIDES-RIDES-RIDES

ORNL

RIDERS from Woodland area, Oak Ridge, to either portal, 8 a.m. shift. E. L. Ryan, plant phone 3-0115, home phone 482-1864.

TWO RIDERS from Norwood-Clinton Highway area, Knoxville, to West Portal, 8-4:30 shift. Jack Posey, plant phone 3-1708, home phone 947-3261.



SOFT SCULPTURE — Sharon Fields, wife of David E., a physicist at ORNL, is seen with some of the stitchery and soft sculpture she will show at the Foothills craft show November 7, 8 and 9, at the Civic Center.



LEATHERWORK — Roy H. Cooper Jr., ORNL, specializes in leatherwork and his handicraft will be part of the Foothills craft show next month in Oak Ridge.



HUSBAND AND WIFE TEAM — Ron and Dot Senn display some of their handicraft items. Senn, who is finishing his second term as president of the Foothills Craft Guild, specializes in traditional toys and games, wooden jewelry, weed pots and candle holders. Mrs. Senn works in natural materials, making wreaths and candle rings, nut topiary trees and kissing balls.



MOTHER AND SON COMBO — Marti and Kurt Fleischer, wife and son of Burt Fleischer, a metallurgist at ORGDP, show some of the macrame that will be included in the Guild show next month at the Oak Ridge Civic Center.



WOODWORKING SPECIALISTS — William E. Dunlap, in the Engineering Division at Y-12, displays some of his beautiful woodwork that will be at the Fall show of the Foothills Craft Guild.

COMPANY Service**20 25 30****Y-12 PLANT
30 YEARS**

Alvin Kerley, chemical services; and Lester W. LaRue, guard department.

Greer E. Valentine, material specimen shop; Millard N. Wilkerson, Aubrey Jeffers, Martin L. Sullivan and Willie E. Green, guard department; and James D. Lovin, general shops.

25 YEARS

James D. Gill, Bernard J. Beck, William S. Dritt, Howard L. Horne, William M. Stephan, Rupert O. Osborn, Calvin A. Scarbrough, Leonard Bowers Jr., J. R. Harris and Sam P. Eubanks.

Charles F. Chandler, Marvin E. Short, William E. Humphreys Jr., Lamont B. Keitch, Oran C. Buck, James B. Johnson, Joel S. Morgan, Ezra Ballard, Howard G. Tillery and Henry R. Swallows.

20 YEARS

Robert C. Human and Basil E. Lett. Van Vail Jr., William H. Holbert Sr. and Coleman C. Wright.

**ORGDP
30 YEARS**

Wayne D. Weatherford, Oak Ridge area electricity distribution; William S. O'Brien, building maintenance department; Ezra Hennessee, TIA barrier manufacturing; James F. Wininger, Oak Ridge area electricity distribution; Henry C. Shanks, utilities operations; Kenneth W. Woody, dimensional inspection; Lemuel O. Bacon, fabrication shop department; Thomas R. Slaughter, chemical operations administration; Ernest L. Rogers, TIA barrier manufacturing; Jasper W. Jenkins and Ralph S. Martin, utilities operations.

20 YEARS

Jerome W. Straken.

**PADUCAH
25 YEARS**

Beecher D. Parton.

20 YEARS

R. Paul James Jr. and Harlan T. Kaler.

Jeff C. Vandeven and Virgil A. Smith Jr.

**GENERAL STAFF
30 YEARS**

John D. Shelton, General Accounting Division; and James N. Willis, Purchasing Division.

C. William Watson, General Accounting Division; and Harold H. Osborne, Purchasing Division.

25 YEARS

Mary A. Cusman and Joseph E. Smyrl.

20 YEARS

Earl E. Stout.

Roderick F. Creigh and Charles L. Allen.

RIDES-RIDES-RIDES**ORNL**

RIDE or WILL JOIN CAR POOL from vicinity of Louisiana Avenue, Oak Ridge, to East Portal, straight day. Julie Hoppe, plant phone 3-0241, home phone Oak Ridge 482-4191.

**Welding workshop set
Oct. 28-30; features
six UCC specialists**

Six Nuclear Division engineers will play key roles in a workshop on industrial applications of advanced welding and brazing to be held October 28-30 at O'Hare Airport in Chicago.

**P. W. Turner**

Paul W. Turner, who heads the welding development laboratory at the Oak Ridge Y-12 Plant, will act as co-leader of the workshop. Presenting papers will be George W. Brandon, Donald G. Scott and Jimmie L. Irons, of the Y-12 Plant, and David P. Edmonds and Gene M. Goodwin, Oak Ridge National Laboratory.

Also acting as co-leader for the workshop will be William H. Jones, an engineering specialist at Mound Laboratory, Miamisburg, Ohio.

The workshop, which is sponsored by the Society of Manufacturing Engineers and the U.S. Energy Research and Development Administration in cooperation with Argonne National Laboratory and Union Carbide Corporation's Nuclear Division, is aimed at transferring technology developed for the nation's nuclear programs to private industry.

The workshop will explain and demonstrate technologies of welding and brazing which have practical application for general manufacturing. Among the topics to be presented are electron beam welding, solid state bonding, electrochemical joining, gas metal-arc welding and fusion welding. Attendees also will spend a day at Argonne National Laboratory to see the techniques in actual practice.

Turner, who joined the Union Carbide organization in 1960, supervises a welding laboratory which is engaged in soldering, welding and brazing nuclear components fabricated from a wide variety of materials. He has authored a number of technical papers on welding. He holds a B.S. degree from Purdue University, an M.S. degree from The University of Tennessee in metallurgical engineering, and an M.S. degree from Ohio State University in welding engineering.

PATENTS GRANTED

To Hugh J. Metz, ORNL, "Measurement of the Differential Pressure of Liquid Metals."

To Carl A. Burtis and Wayne F. Johnson, both ORNL, "Whole Blood Analysis Rotor Assembly Having Removable Cellular Sedimentation Bowl."

To Wayne F. Johnson and James C. Mailen, both ORNL, "Whole Blood Analysis Rotor for a Multistation Dynamic Photometer."

To Ronnie A. Bradley, Charles R. Reese and John D. Sease, all ORNL, "Apparatus for Blending Small Particles."

To Charles E. Harless and Ward G. Taylor, both of Paducah Gaseous Diffusion Plant, for "Bellows-Forming Apparatus."

**Dykstra, Richardson to serve on
ORGDP special assignments**

75-2714

Joe Dykstra and Waldo L. Richardson have been appointed to special assignments supporting the new enrichment activities at the Oak Ridge Gaseous Diffusion Plant. Dykstra will report to A. J. "Gus" Legeay and Richardson will report to Robert A. Winkel, ORGDP Manager.

They will interface directly with the engineering efforts of James W. Hodges, Centrifuge Capacity Planning, and Samuel J. Senatore, Gaseous Diffusion Capacity Planning; as well as with Lowell L. McCauley, Industrial Participation Program; and Daryl M. Papke, UEA Participation. Dykstra's responsibility will be in operational areas; Richardson's will concentrate on the areas of security, fire protection and emergency planning.

Dykstra, a native of Oskaloosa, Iowa, holds an A.B. in chemistry from Grinnell College. He has been at ORGDP more than 30 years in Cascade Operations, Utilities, Chemical Operations and Toll Enrichment. He worked with the Hooker Electrochemical Company before joining Union Carbide.

He lives at 624 Pennsylvania Avenue, Oak Ridge, with his wife, the former Nettie Baxter. They have two children.

Richardson was born in Chelmsford, Mass., and attended the University of Vermont. He was a safety and fire protection engineer at Remington Arms Company before joining Union Carbide in 1944.

He has worked as an equipment test and inspection supervisor; safety and protection superintendent; and as Security and Plant Protection superintendent.

Mrs. Richardson is the former Priscilla Emerson, and the couple lives at 105 Canterbury Road, Oak Ridge. They have one son.

Replacing Richardson as superintendent of Security and Plant Protection is Carlton C. McSwain.

A native of Columbia, S. C., McSwain has a B.A. degree from Presbyterian College. He joined Union Carbide earlier this year. Prior to that time, he was assistant manager of the Chicago Operations Office of the U.S. Energy Research and Development Agency.

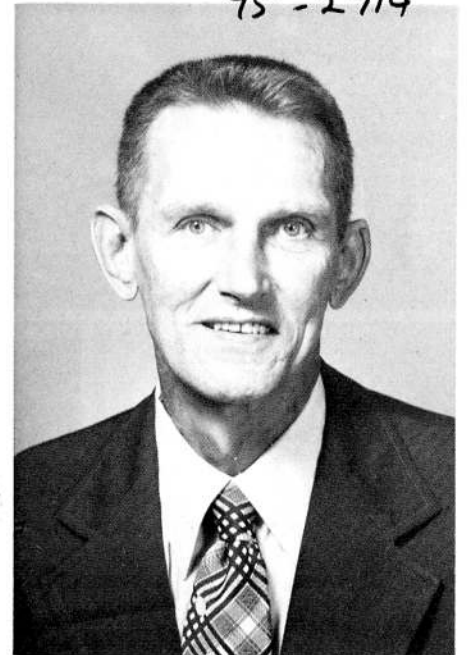
He and his wife, the former Shirley Yorke, live at 417 Dublin Road, Knoxville. They have a son and a daughter.

**Autos, office equipment
offered in spot-bid sale**

A spot bid sale on used government-owned vehicles and office equipment is set during October. The merchandise may be inspected through October 21, from 8:10 a.m. to 4 p.m. daily except Sundays.

The sale will be held at the Oak Ridge Gaseous Diffusion Plant, Powerhouse Area, Building K-722, located off State Route 58, Oak Ridge. It begins at 9 a.m. October 22.

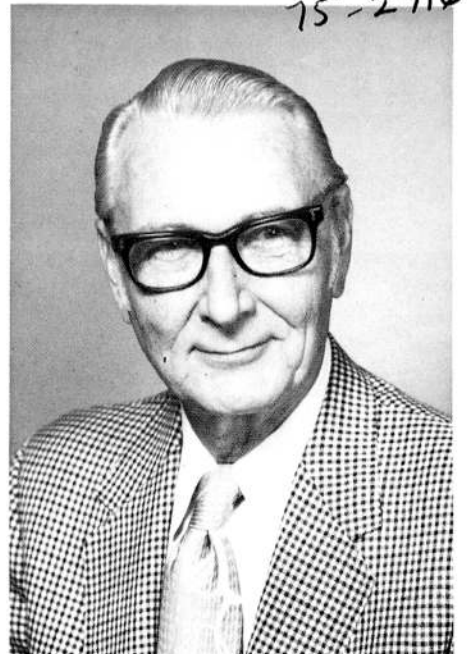
Additional information may be obtained from D. R. McCammon, extension 3-4601.

**Joe Dykstra**

74-1438

**Waldo L. Richardson**

75-2716

**Carlton C. McSwain****CARVER NAMED EDITOR**

J. S. Carver, Health Physics Division at Oak Ridge National Laboratory, has been appointed news editor of the *Health Physics Journal*. The *Journal* has a circulation of 3,500 to more than 40 foreign countries and the U.S. It is the official journal of the Health Physics Society and the only journal devoted exclusively to the field of health physics.

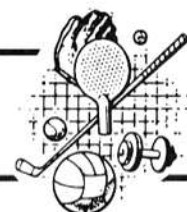


ORGDP BARBECUE-HOOTENANNY — Fun was the big word from the 1975 barbecue-hootenanny, held September 27 at the Clark Center Recreation Park. A few happy faces are seen above, representative of the huge crowd that attended. The top photograph shows many of the retired employees who came to enjoy the festivities and eat the delicious barbecued pork.



PREPARE FOR ORCMA CONCERT — George Singer (right), ORNL Biology, and Waldo Cohn (left), Biology Division consultant, both members of the Oak Ridge Symphony Orchestra, join orchestra conductor Don Neuen in looking over the score for the Oak Ridge Civic Music Association (ORCMA) concert Saturday, October 25. More than half the orchestra's players are Nuclear Division employees, their spouses, or their children. The first in ORCMA's 1975-76 concert series will feature Brahms' Second Symphony, a violin concerto by David Van Vactor and "Overture and Allegro" from La Sultane Suite, by Couperin. The concert will be presented at 8:15 p.m. in the Oak Ridge High School auditorium; tickets will be available at the door.

RECREATIONOTES



D SHIFT RODEO

Y-12's D Shift is sponsoring a Fishing Rodeo to be held at the Stardust Boat Dock, Norris Lake, October 20, 21. A trolling motor is offered for the largest largemouth. A reel will be awarded for the largest walleye, and a life jacket for the largest stripe, rockfish or hybrid. There's a \$1 entrance fee, and fishing will be from 6:30 a.m. on the 20th until 5 p.m. on the 21st. You must register at the dock before fishing.

ORGDP BOWLING

The Spotters keep a 10-point lead in the ORGDP Women's League. Stephanie Livesey rolled a 607 handicap series recently to pace rollers.

The Tuesday League sees the All Stars ahead of the Atoms and Mishaps by a mere two and one-half points. Sewell Brown paced bowlers recently with a single of 213, a series of 599 scratch. George Marrow placed a 641 handicap series up there.

In the Wednesday League, it's the Hi-Rollers by a point over the Sue Sooners and the Amps. Close behind are the Losers and Demons. Chuck Goodman was the star-of-the-night recently with a single handicap of 269, a series of 680!

SOCCER CLUB

The Soccer Club's fall and winter season will be held Sunday afternoons, starting at 2:30 p.m., at the Oak Ridge High School soccer field, (A change from the Wednesday 6:30 p.m. time). Anyone desiring to join will be welcomed.

Y-12 BOWLING

The Goofers hold a two-point lead in the Y-12 Mixed League as the first half nears its mid-point. Jim Herrell, Friskies, rolled a 630 series recently to help his team win three points over the Splinters.

The Rounders are a one-point leader in the C League, as the Big Five breathes close by. Dick Huber's 675

handicap series jolted the boards recently.

The Rebels keep a slight lead also in the Classic League, a single ahead of the Ridgers. Ronnie Vowell's 701 handicap series had them talking recently.

ORNL BOWLING

The Dynamics lead the A League, a good distance ahead of the Recycles. ORAU's Jim Carlton posted high handicap series recently, rolling for that team, adding a total of 640.

The Cellar Dwellers are not that in the C League, a good 10 points ahead of the Remkeys. Fred Kappelmann rolled a 664 series recently.

Mousechasers take command of the ORNL Ladies League, with Elizabeth Phipps shining for her team, handicap game of 235, and series of 607.

The Oops team still keeps a slim margin in the Family Mixed League ... as John Patton, 595, and Tillie Plaza, 571, rolled scratch highs recently.

"C" SHIFT FISHING RODEO

BAYSIDE BOAT DOCK
Watts Bar Lake

from 6:00 A.M. to 4:00 P.M.
Thursday - October 23, 1975

"PRIZES"

LARGE MOUTH

1. Thermos (SS)
2. Rod

CRAPPIE

1. Mitchell 300 Reel
2. Rod

SMALL MOUTH

1. Thermos (SS)
2. Rod



The Medicine Chest

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him your question on the telephone.)

By T. A. Lincoln, M.D.

QUESTION: "What are the hazards in the use of a microwave oven?"

ANSWER: When microwave ovens first became popular, leaks of microwave energy around loose door hinges and latches caused concern. It was feared that the users of these ovens could be unknowingly exposed to hazardous amounts of this form of non-ionizing electromagnetic radiation. Microwaves have wavelengths from one millimeter to two meters long and are generated by radar and special line-of-sight telecommunications devices, diathermy machines and microwave ovens. Diathermy machines are used in physiotherapy departments in hospitals to generate heat in inflamed or irritated tissue. Microwave ovens cook foods quickly because the microwave energy deposited throughout the food is rapidly converted to heat energy. It is primarily this potential for creating heat within sensitive cells in certain tissues that causes worry when humans are exposed.



Microwave energy at levels 30 times the present occupational exposure limit for an eight-hour day has produced cataracts in eyes of rabbits. Because so much heat was generated in other tissues, the rest of the rabbits' heads had to be shielded to prevent superficial burns. The Russians have reported vague symptoms of weakness, memory lapses and drowsiness, but investigators in this country seem to be dubious about some of these reports. They certainly do not occur at "permissible" exposure levels.

Military studies

A number of studies of military personnel exposed to low levels of microwave radiation around radar installations have failed to uncover any cataracts. Even accidental brief exposures to high levels have not caused lens changes that could be definitely related to the accidents. Colonel Budd Appleton, writing in the *Journal of the American Medical Association* last year, did not believe lens damage would occur in humans following a single accidental exposure unless it was so great that severe facial burns also occurred.

As with any source of radiation which deposits some of its energy in the tissue through which it travels, caution is necessary. Subtle biochemical or biophysical effects may occur which could have long-range health implications. At this time these are largely unknown. For this reason, eight-hour exposure levels have been set at only 10 milliWatts per square centimeter. Power densities of 25

milliWatts per square centimeter are permitted, but are not to exceed ten minutes in any sixty-minute period.

Do not tinker!

Because some early microwave ovens leaked, a new standard was put into effect in 1969. The maximum leakage allowed was 1 mW/cm² at two inches from the external surface at the time of delivery and only 5 mW/cm² at any time during the life of the product. Presently manufactured microwave ovens should therefore be safe to use if instructions are followed and the oven not used if the door or latch is damaged. If they are dropped and bent so the door or latch doesn't work properly, or if the electronics don't function correctly, they should be repaired only by adequately trained professionals. "Do-it-yourselfers" must resist the temptation to tinker.

QUESTION: "What causes a bunion? How can a bunion be corrected if it is in the early stages? What type of doctor is best to consult if corrective shoes are needed or if surgery is required?"

ANSWER: A bunion is a deformity of the foot which is frequently blamed on wearing too narrow or pointed shoes. It occurs more frequently in wide and flat feet which tend to spread out when a step is taken. The medical term used to describe this condition is hallux valgus. Perhaps the easiest way to describe it for you is to have you take off your shoes and socks and look at the edge of your foot. Put a ruler or straight edge along the big toe side of your foot. If you are normal, the entire edge of the big toe, the forefoot, and the edge of the ankle part of the foot all touch the straight edge. In a person with hallux valgus, the big toe points toward the little toes, causing the metatarsal phalangeal joint at the base of the big toe to stick way out. Where this joint protrudes, chronic irritation frequently occurs, causing a thickening around the joint. Calluses in the skin also often become troublesome.

Proper shoe fit

There is no effective nonsurgical treatment for a painful, fully developed hallux valgus. Fortunately, most do not cause that much trouble. Shoes which are wide enough to accommodate the deviated joint are helpful, and sometimes local padding helps to prevent the continued irritation of the skin over the joint. A splint can be used to straighten the joint at night but it usually doesn't help the basic problem.

A podiatrist could help you with symptomatic relief and help you in finding proper shoes. An orthopedic surgeon should be consulted for definite surgical correction.

Helen Raaen to manage technical publications

Helen P. Raaen has been named manager of the technical publications department of the Information Division at Oak Ridge National Laboratory.

Mrs. Raaen fills the post left vacant by the death of Francis E. McKinney in March.

A native of Roanoke, Va., Mrs. Raaen received bachelor's and master's degrees in chemistry from Duke University and completed course work for the doctorate at the University of Minnesota. She joined the ORNL Analytical Chemistry Division in 1951 where she was a research associate and technical editor.

From 1970-71 she served in the Isotopes Information Center as associate editor of *Isotopes and Radiation Technology*. She joined the technical publications department in 1972 and was named supervising editor in 1974.

Mrs. Raaen was elected a Fellow of the American Institute of Chemists and holds membership in several honorary and professional societies. She is the wife of Vernon F. Raaen, a member of ORNL's Chemistry Division, with whom she co-authored the book *Carbon-14*. They have one son and reside at 111 Scenic Drive, Oak Ridge.

Clifton is promoted to foreman position

William E. Clifton, Operations Division at Oak Ridge National Laboratory, has been promoted to custodial foreman.



W. E. Clifton

Prior to 1953 he was employed with the Atomic Energy Commission's Oak Ridge Operations.

A native of Texas, Clifton has spent most of his life in East Tennessee. He and his wife, the former Anna Donaldson, reside at 7320 Winchester Drive, Knoxville. They have two sons.

Dobbins, McDaniel



A. D. Dobbins



C. A. McDaniel

Two promotions were announced recently at the Paducah Gaseous Diffusion Plant. Algine D. Dobbins was named a supervisor trainee in maintenance. A native of Columbia, Tenn., he is a graduate of the Institute of Electronics Technology. He has been with Union Carbide more

Firewood cutting

Another public firewood cutting on the Oak Ridge reservation is planned for Friday and Saturday, October 24 and 25. Persons interested in participating in the activities should meet at the intersection of the Oak Ridge Turnpike and Highway 58, between 8 and 9:30 a.m. on either day.

Permits will be \$5 per day for each individual or family to defray costs of personnel needed to monitor the activity. Activities are under the supervision of Dennis Bradburn, Environmental Sciences Division. Children under the age of 12 will not be permitted access to the cutting areas due to safety regulations.

The cutting will be behind logging operations, and is aimed at providing local citizens with an abundant source of firewood for personal use. For additional information, call Bradburn at extension 3-1266.

ICET names Hopkins to certifying post

Robert C. Hopkins, a designer in the civil and architectural engineering department at the Oak Ridge Gaseous Diffusion Plant, has been appointed to a national office. He will serve a four-year term on the National Examination Review Board of the Institute for Certification of Engineering Technicians.



R. C. Hopkins

In this post, he will help rewrite the present examination and review, with other committee members. ICET was established by the National Society of Professional Engineers to certify engineering technicians in various grades based on education, qualifications and experience. Hopkins is certified by ICET as a senior engineering technician, and serves as a board member of the Oak Ridge-Knoxville Chapter of the American Society of Certified Engineering Technicians.

He attended The University of Tennessee and has done work with Northwestern University and has participated in a job course in structural steel and concrete design.

He and his wife, Madge, live at 106 Tilden Road, Oak Ridge, with their two children.

upped at Paducah

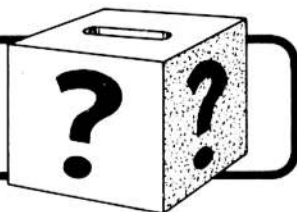
than nine years, seven of which were spent with the Columbia, Tenn., Carbon Products Division. He transferred to the Paducah Plant two years ago.

Dobbins and his wife, the former Izell Johnson, live at 527-A Highland Boulevard, Paducah. They have a son.

Charles A. McDaniel, a native of Calloway County, has been with UCC 23 years. He served in the U. S. Navy and worked for Taylor Motor Company and Parker Motors before joining UCC. He is promoted to a process maintenance foreman.

McDaniel and his wife, the former Mary Hicks, live at 2134 Homewood Avenue, Paducah. They have two married daughters and a son.

QUESTION BOX



(Continued from page 3)

ANSWER: Early in the spring of 1975 the need to provide additional food services to accommodate the expected large influx of summer employees and students was recognized. At that time the possibility of reopening the 7000 area canteen was given consideration, but, because it is located so far from the center of population and because of the expense of re-equipping it would amount to several thousand dollars, it was felt that the temporary outdoor canteen would serve the needs of the largest number of persons at a minimal cost. Additionally, after the 7000 area canteen was closed in 1970, it was converted into a maintenance shop; cost projections indicate that it is not economically feasible to reopen it.

QUESTION: When a salaried employee transfers from full-time to part-time work, how is vacation calculated?

ANSWER: The fact that an employee transferred from full-time to part-time status has no effect on the method used to determine vacation pay for part-time employees, because part-time vacation pay is calculated on the basis of the regular salary rate for the normally scheduled part-time work week which is in effect for that employee at the time the vacation is taken.

The number of weeks of vacation for a part-time employee is determined in the same manner as for a full-time employee. For example, if a part-time employee has from 10 to 19 years of Company service, the employee is entitled to four weeks of vacation; if the normal workweek for a part-time employee is 20 hours and the employee takes a week of vacation, the pay for that week of vacation would be calculated on a 20-hour workweek basis. The employee would be charged with a full week's vacation regardless of whether the work schedule is four hours per day for five days, or is two and one-half days at eight hours per day, or any other combination.

The same principle also works in reverse. If a long-service, part-time employee begins working a full-time schedule, his length of Company service determines the number of weeks of vacation to be granted and the schedule being worked at the time of the vacation determines the pay for that week of vacation.

QUESTION: What is Company policy on the capacity of in-plant buses? Also on smoking on buses?

ANSWER: In-plant buses normally operate below full passenger capacity although, on some occasions, riders may have to stand for short trips. Passenger standing is safely permitted to the extent that it does not interfere with the driver's ability to safely operate the bus. When passenger standing is required, hand rails or straps are provided.

At most locations, there is no policy relative to smoking on the buses. Employees who smoke should exercise some courtesy to the nonsmokers, and normally will.

QUESTION: Would you please clarify the emergency room coverage under the hourly employees' hospitalization contract?

ANSWER: Emergency care is paid for under the basic hospitalization plan only when required as a result of accidental injury. Benefits are paid for care received within 24 hours of the accident when treatment is performed in a clinic, a doctor's office or in the emergency room of a hospital. Covered expenses are those customarily provided by a hospital in its emergency room and must be ordered by a doctor. Fees to the attending doctor are limited to those payable under the Surgical Schedule.

The basic hospitalization plan does not provide benefits for emergency room care which results from a sudden or serious illness. Costs associated with these conditions are eligible expenses under the Major or Special Medical Plan.

Coverage provided hourly and salaried employees is the same in respect to this matter. If additional information is desired, please discuss the case with your Benefit Plans representative.

QUESTION: I would like to suggest having a three-minute limit put on Knoxville telephone calls. This would make it possible for more people to use this line. I am sure there is some system whereby an automatic cut-off system could accomplish this. Can this be done?

ANSWER: Mechanically, this is feasible; however, these Knoxville lines are provided for the transaction of official business only and an arbitrary limit on business calls would be neither reasonable nor desirable.

Although not specifically stated, it appears that the calls referred to are of a personal rather than an official business nature. Recently, memorandums were issued to remind all personnel that in the words of ERDA Appendix 0270, Part I, Section G, "Telecommunications facilities shall not be provided by ERDA or at its expense for personal or nonofficial use."

QUESTION: I work in an office where there is a lead secretary. She acts like she is the boss and she doesn't really do anything to help those of us who want to learn more about our boss' work. What can I do about it?

ANSWER: Quite often managers delegate to secretaries who have long experience the coordination of secretarial and clerical work within a group. If you are dissatisfied with the way this is being done in your particular group, you should discuss the matter directly with your supervisor.

NUCLEAR DIVISION SAFETY SCOREBOARD

Time worked without a lost-time accident through October 9:

Paducah	17 Days	165,000 Man-Hours
ORGP	158 Days	3,749,000 Man-Hours
Laboratory	186 Days	3,944,573 Man-Hours
Y-12 Plant	10 Days	292,000 Man-Hours

Calendar of EVENTS

TECHNICAL

October 20

Solid State Division Seminar: "Trace Element Analysis in Blood Using Proton-Induced X-ray Fluorescence," Robert C. Bearse, University of Kansas. Conference Room, Building 3025, 10 a.m.

October 21

UT Department of Chemistry General Seminar: "Photometry and Special Stripping by FT-IR Spectrometry," Peter R. Griffiths, Ohio University. 414 Buehler Hall, UT Campus, 4 p.m.

October 26-30

ICOMCHISASS Conference, Riverside Motor Lodge, Gatlinburg.

October 28

Analytical Chemistry Division Seminar: "Alpha Emitters in Environmental Materials, S. A. Reynolds. East Auditorium, Building 4500N, 1 p.m.

October 30

East Tennessee Chapter, Health Physics Society: "One Atom Detection with Laser Beams," G. S. Hurst. Oak Ridge Civic Center, Meeting Room B. Social hour 6, dinner 7, program 8 p.m.

COMMUNITY

October 19

Oak Ridge Community Art Center Film Club: "Scenes from a Marriage," Ingmar Bergman, Sweden 1974. Jefferson High School Auditorium, 8 p.m. Admission: adults \$1.75; students \$1.

Oak Ridge Civic Ballet: "Cinderella," Sergei Prokofiev's Ballet Film with the Bolshoi Ballet and

Raisa Struchkova. Co-sponsored with the Clarence Brown Theater, The University of Tennessee, 3 and 8 p.m. Admission: adults \$3; students \$1.

October 21

Junior Playhouse presents: Nicolo Marionettes in "Beauty and the Beast." Robertsville Junior High School Auditorium, 4 and 7 p.m. Admission: \$1.25.

October 25

Oak Ridge Civic Music Association presents: The Oak Ridge Symphony Orchestra, Donald Neuen, Conductor. Oak Ridge High School Auditorium, 8:15 p.m. Admission: adults \$3.50; students \$1.75.

RETIREMENT



E. Hensley

Edward Hensley, Y-12 area five maintenance, retired at the end of September after more than 24 years with Union Carbide. He lives at 110 Princeton Lane, Oak Ridge.



UNION CARBIDE CORPORATION

NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

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